



INFRAPIPE FIRE SUPPLY TANKS

DESIGN REQUIREMENTS

INFRAPIPE is an independent NZ manufacturer that began supplying fully certified flexible pipes and tanks to the market in 2022. Using their brand-new European KRAH machine in Auckland they can quickly produce tanks up to 3.2m in diameter, the largest in Australasia, ideal for underground fire supply.



VOLUMES

Tanks can be made to any size by easily and quickly joining sections [on site] that are up to 15m long (a 2.5m ID section 12m long only weighs 6 tonnes for instance). Tanks can be joined in any fashion creating U, L, E, F, O or T shaped tanks (for instance) allowing the designer to make the best use of space. Minimum cover is typically 700mm, typical fall 1%.

Example tank volumes – any size possible

DN(ID)	m ³ /m	11.6m	25m	50m	100m
1000	0.79	9	20	39	78
1500	1.77	20	44	88	176
2000	3.14	36	79	157	304
2300	4.15	48	104	208	416
2500	4.91	57	123	245	490
3200	8.04	93	201	402	804

Diameters 1100,1200,1350,1600,1800 available

CHECKLIST FOR TANK DESIGN

- ✓ Suction, vortex plate etc.
- ✓ Sump for suction
- ✓ Auto Top-up system
- ✓ Manual fill method
- ✓ Overflow
- ✓ Vent
- ✓ Pump Return
- ✓ Level sensor
- ✓ Effective capacity
- ✓ Fall, cover and ILs
- ✓ Access & risers

INFRAPIPE then calculates

- ✓ Pipe (tank) stiffness & OD
- ✓ Trench design
- ✓ Buoyancy mitigation (if required)

STANDARDS

- INFRATANK HDPE fire tank solutions meet the requirements of NZS4541:2020 (sprinklers) or SNZ PAS 4509:2008 (buffer tanks for fire-fighting)
- INFRAPIPE is certified to ISO 9001:2015
- Tanks and pipes are certified to AS/NZS5065:2005
- Pipes tested to ISO9969
- Trench design to AS/NZS2566.



BENEFITS OF HDPE INFRATANKS

- 100 YEAR LIFE
- Immune to biological or chemical attack
- Absolutely no maintenance or decay
- Best seismic resilience
- Penetrations are homogenous
- Leadtime 4-6 weeks
- Fully recyclable
- Best environmental impact

See [Material Guide](#) for more details.





SOME COOL PROJECTS **INFRAPIPE™** **INFRA TANK**
SUSTAINABLE SOLUTIONS FOR GENERATIONS TO FOLLOW BIGGEST DELIVERY UNDERGROUND TANKS IN NZ



 INFRAPIPE NZ